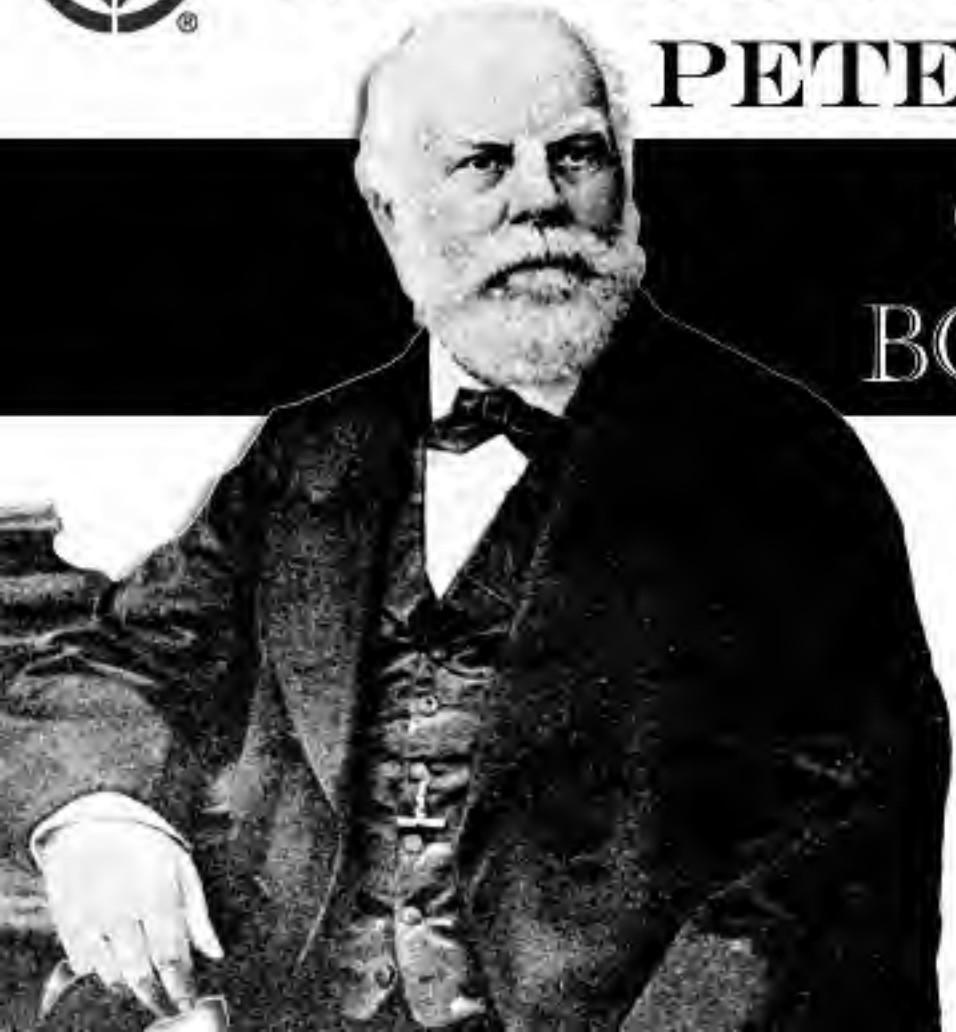




MISSOURI BOTANICAL GARDEN

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GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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43.
Mar
64.
70.8

mean
umid
m m
thro

M.

6 ...
9 ...

9° F.
9 ...

4 ...
3 ...

8

III Articulati
1. Subsinguliflori

370-391



0
cm

1 2 3 4 5 6 7 8 9 10

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MISSOURI
BOTANICAL
GARDEN

9344

MISS
GEORGE

between 6 and 9, from
these hours thr

At 6 A.M.
1861 8.6
1862 8.9

1861 48.9
1862 48.9



0
cm

1 2 3 4 5 6 7 8 9 10

copyright reserved



MISSOURI
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GARDEN

58.1 55.9 77.5 78.6 69.1 57.9 46.0 39.7 57.1° F.
43.2 55.0 69.7 75.1 81.2 80.7 72.1 57.3 42.6 41.3 56.4° F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Mean of Year.
1861	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

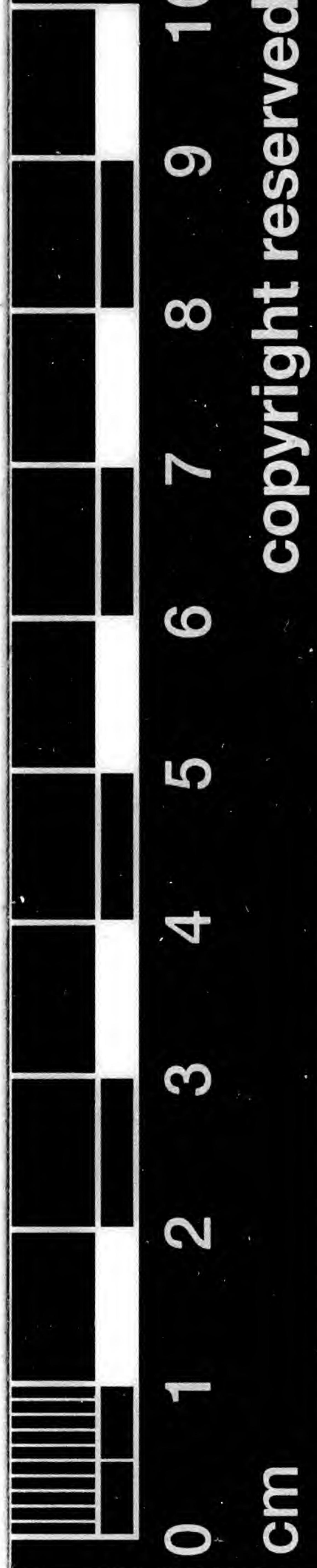
	III. Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of 6, 9, 12, 3, 6 and 9, from morning till night, based upon daily observations at these hours through the years 1861 and 1862, at St. Louis, Mo.
ELECTRICITY.	
At 6 A.M.	At 9 A.M.
1861	8.6
1862	8.9
TEMPERATURE.	
1861	48.9° F...
1862	48.9
RELATIVE HUMIDITY.	
1861	86.4
1862	85.3

	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.
1861	10.0	9.2	7.9	8.7
1862	10.0	9.1	7.3	8.1

	61.6	63.6	59.3	54.3
1861	54.9	60.9	62.3	58.0
1862	55.0	60.9	62.3	58.0

	57.2	65.1	77.3
1861	60.3	67.6	78.0
1862	60.0	57.5	67.6

370 - 384
p. 105



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cm 0 1 2 3 4 5 6 7 8 9 10



112	191	211	230	259	265	351	555	S.E.	50
-----	-----	-----	-----	-----	-----	-----	-----	-----------	----

V. Positive or Negative Electricity in the Observations of '61. & '62.

	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.	
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.
Jan.....	179	179	3	5			40°	40°
Feb.....	162	166	6	2			34	33
March ...	168	179	15	8	1	1	30	48
April....	157	157	12	22	1	1	33	52
May.....	171	180	17	5	5	1	25	32
June ...	162	143	5	2	8	20	16	21
July....	183	153	3	8	1	24	14	11
August..	176	143	5	4	6	40	15	19
Sept....	169	117	1	1	10	61	18	23
Oct.....	162	143	4	1	20	41	33	35
Nov....	172	157	2	3	6	16	42	42
Dec....	175	166	5	0	7	6	17	35
	2046	1883	78	67	59	225	42°	52°

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Jan 1866

Immos pelocarpus in Herb E Meyer
is in part at least J. Conrad's!

A specimen ^{in his Herb} with the label is *J. pelocarpus*
fide Kunth, ex Herb Tuckerman " ^{Mey.}

is this J. Conrad's?

all other specimens in the sheet, supposed
J. pelocarpus, belong here.

Whether the drawings "ex herb Griseb"?

Lattaspe's descript: foliis setaceis compressis sub-
candidis . . . sporis subbifloris -
seems to point here also; but Meyer's old
not compare his *pelocarpus* with *lanceolatus*
and *pandoperus*.

Standl says of Conrad: an eadem species as *pelocarpus*?



0 1 2 3 4 5 6 7 8 9 10

cm

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9346



0
cm

1 2 3 4 5 6 7 8 9 10

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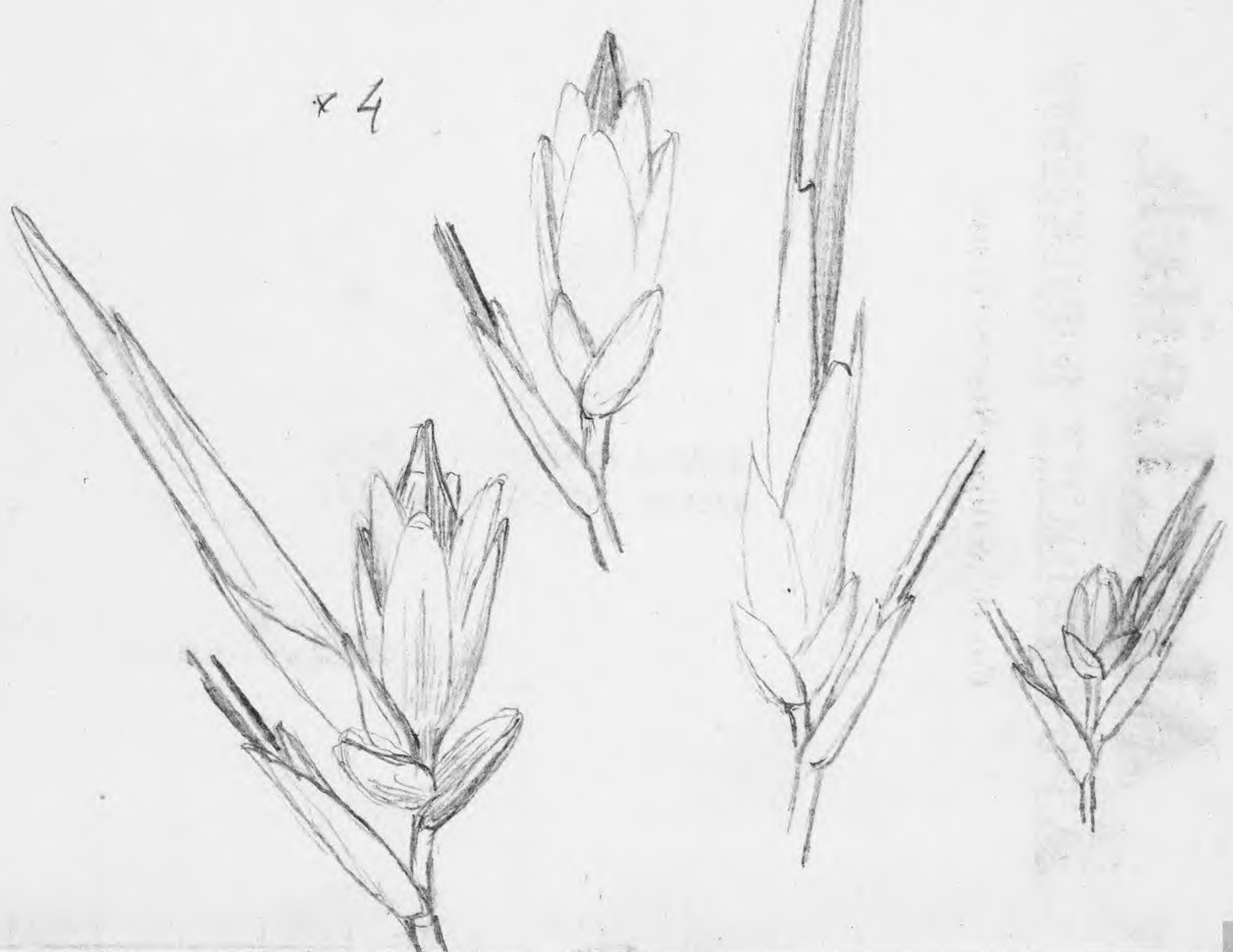


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Turritis paleocarpus

April 24 1866

x 4



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cm

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Cor. 4th & Olive Sts., St. Louis.

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Ch3b



0 1 2 3 4 5 6 7 8 9 10
cm

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D. petiolaris

April 25 1866

C, apparently a bract; or the first leaf
of the leafy branch, opposite
the leaf D

In fig 1 the central
bracts have grown
out into a branch



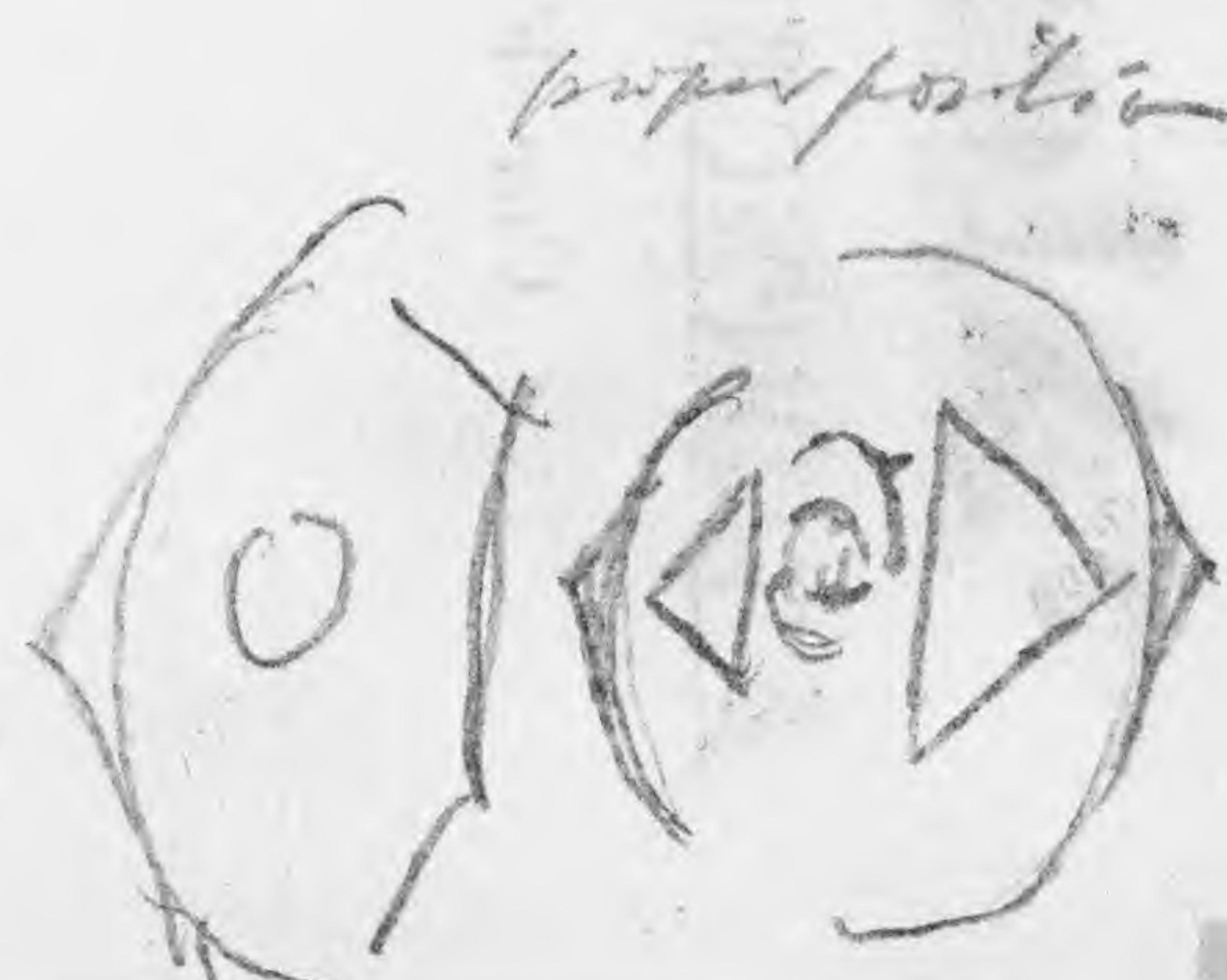
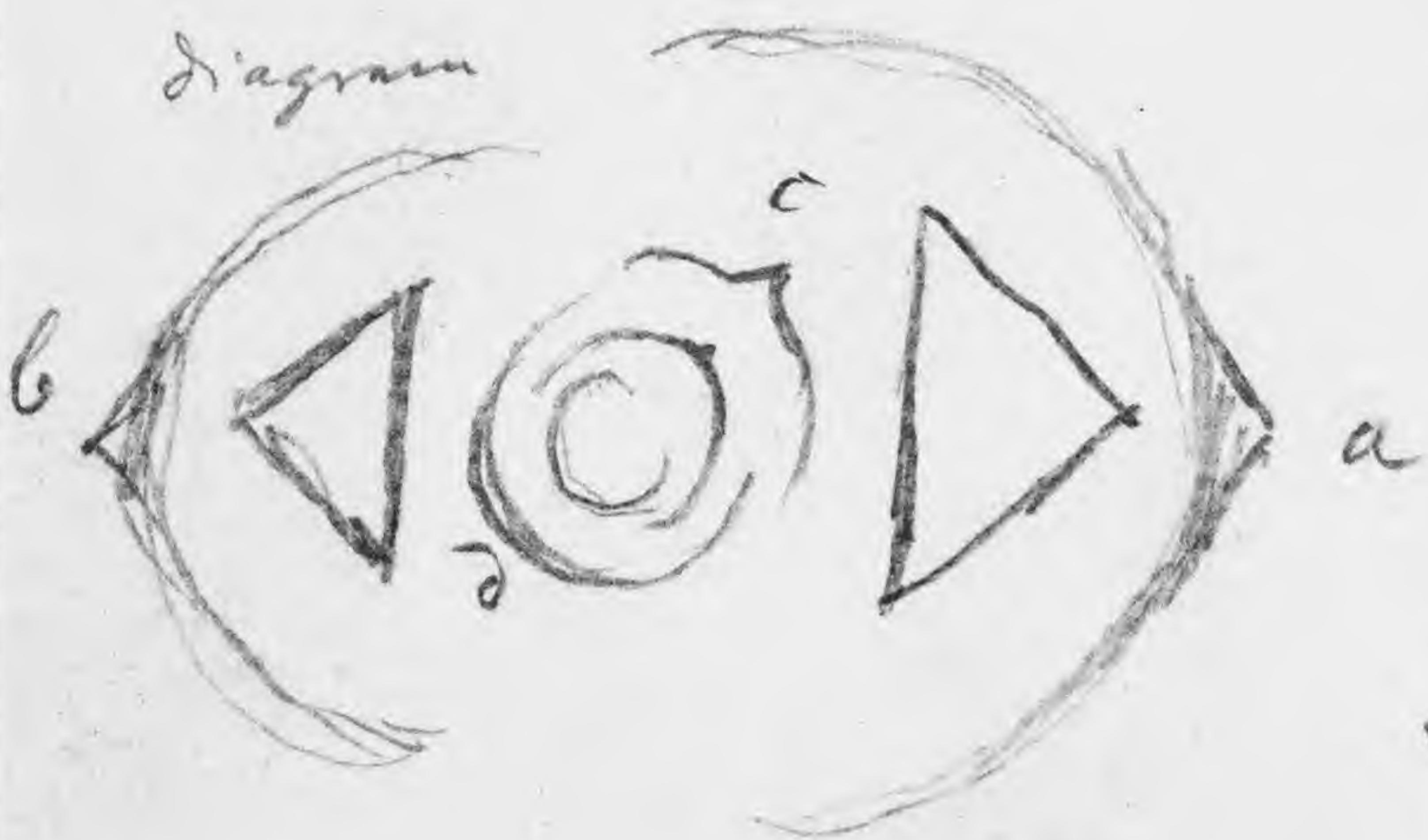
C. in fig 2 is the lowest bract

2. of a bunch of very small
central bracts, such as terminate



the head of most

or all head flowering
Dinner



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cm

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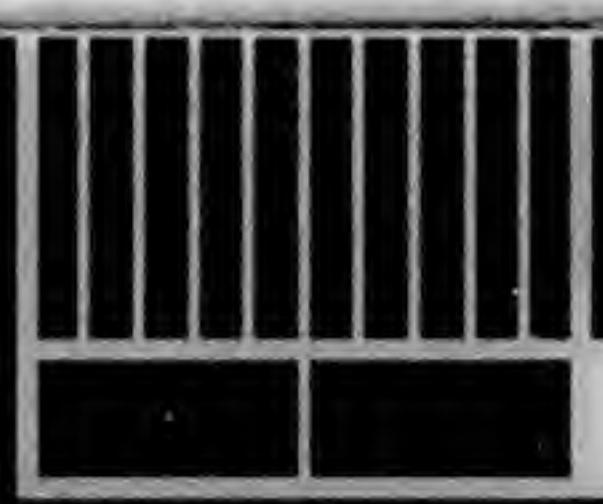


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cm

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cm

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T. petorarpes (Conrad)

	Hb Philad.	Gng Englan.
N. Jersey	Smit Sawyer Conrad Torry Levy	Gray (Gray) Bebb Lord Smith Olney
Woods Isl.	Olney	Olney
Lay Island	Torry	
Massachusetts	Oakes Little	(Tucker)
S Carolina		Curtis
Canada east, St. John's		Macroe
White Mountains		Tuckerman (Tucker)
Petnam Co N.Y.		Carry
Delaware		H. Bentham
Lake Superior		Robbins.



0 1 2 3 4 5 6 7 8 9 10

cm

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EWALD KLEINER

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9350



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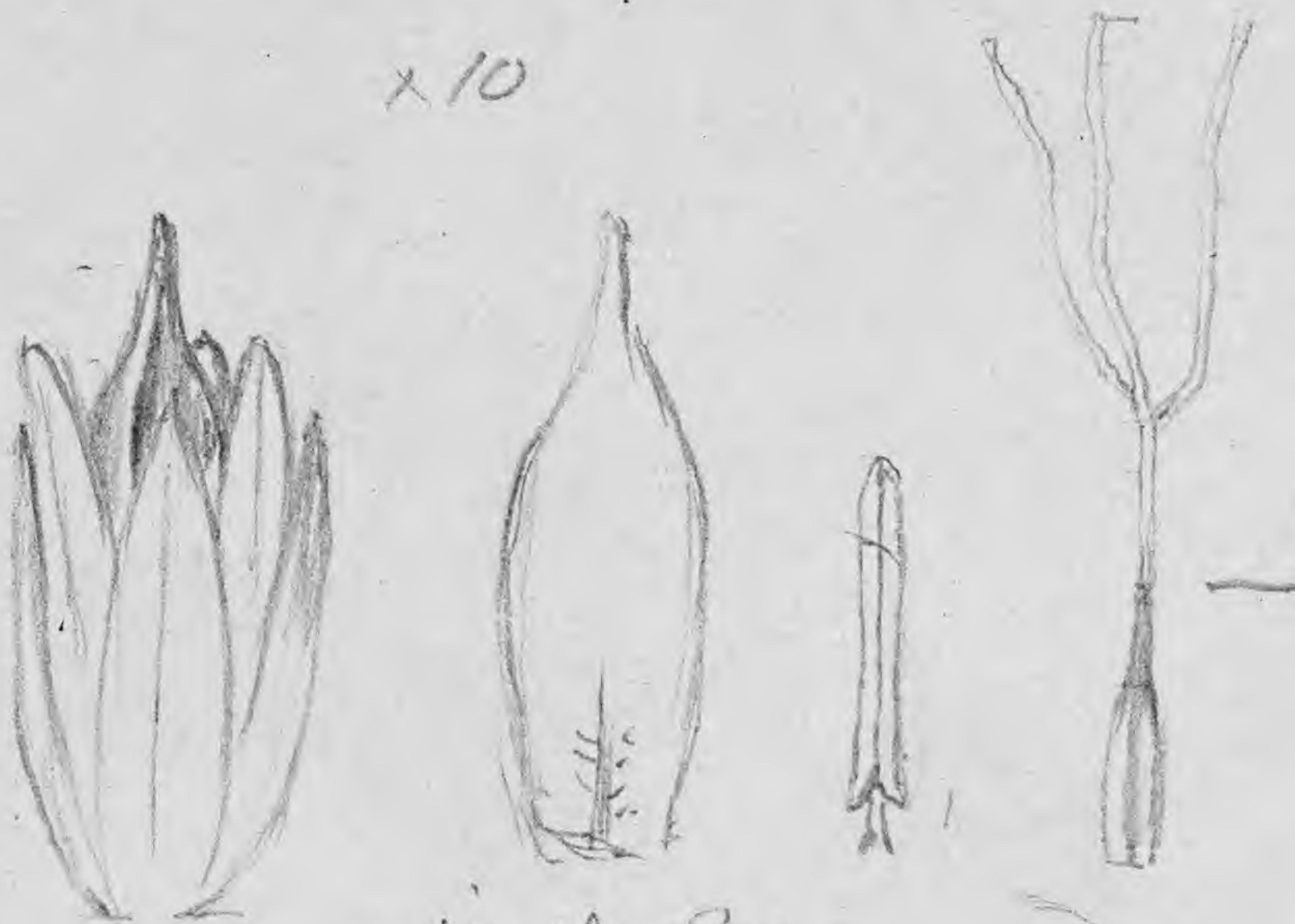
Ionomorus Convolvulus

Aug 14 1865

Rhode Island, C. Curtis

x60

x10



(too
narrow at
instant but
apparently a
coarse net work)

inside of a
valve, with
plaute scarcely
prominent, only
at base!

Capule 1-locular



0 1 2 3 4 5 6 7 8 9 10

cm

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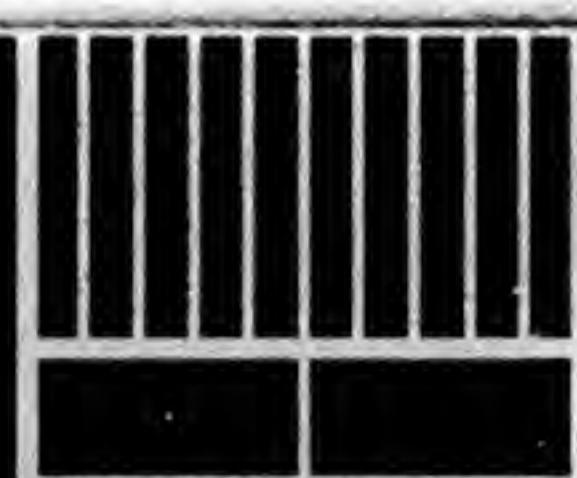
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Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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1586



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cm

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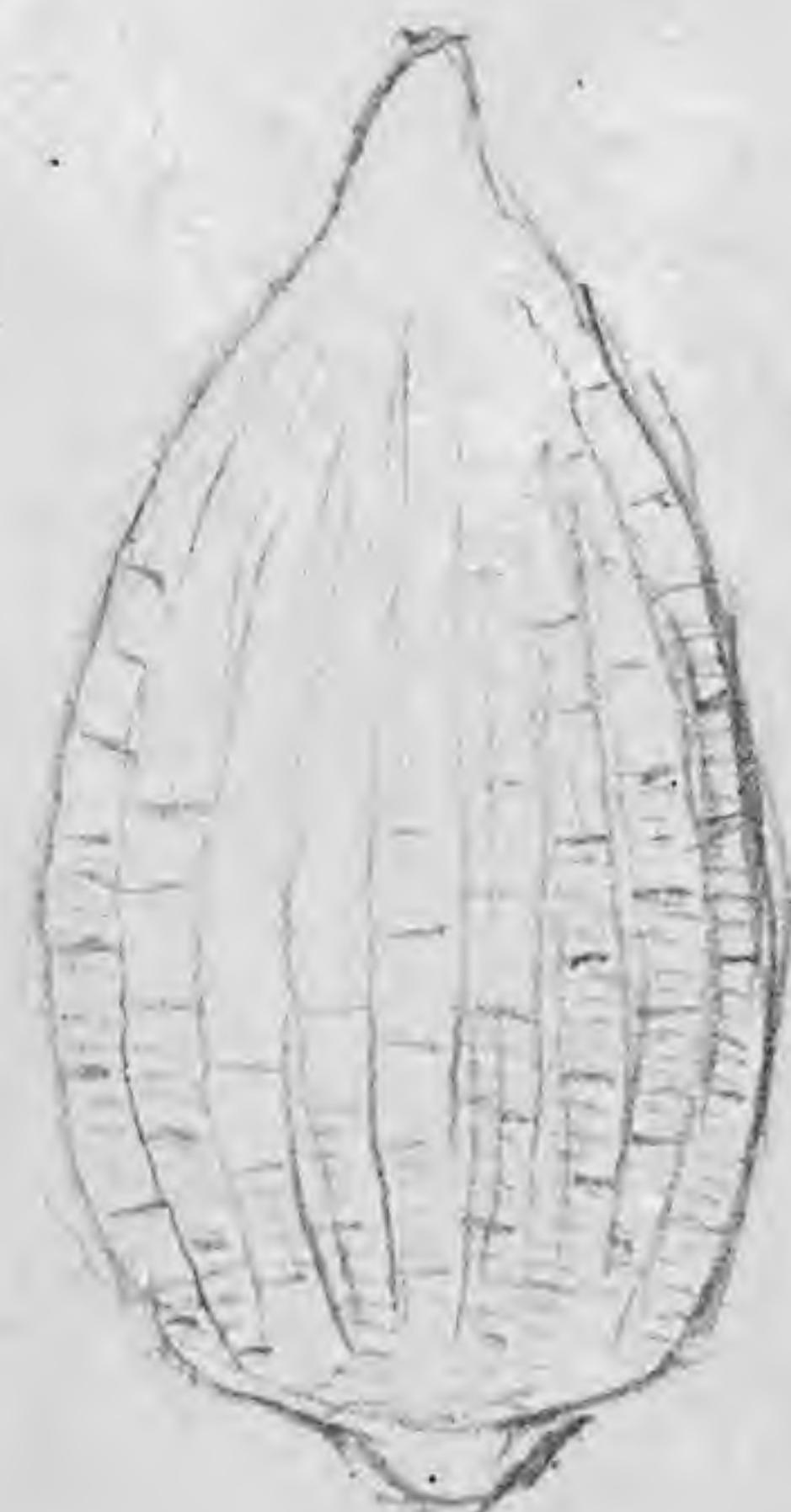
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Iowa, Concord sub.

Sept 3 1865

P. W. Bartram's nursery N. S. Peck in
Hort & Hall

x60



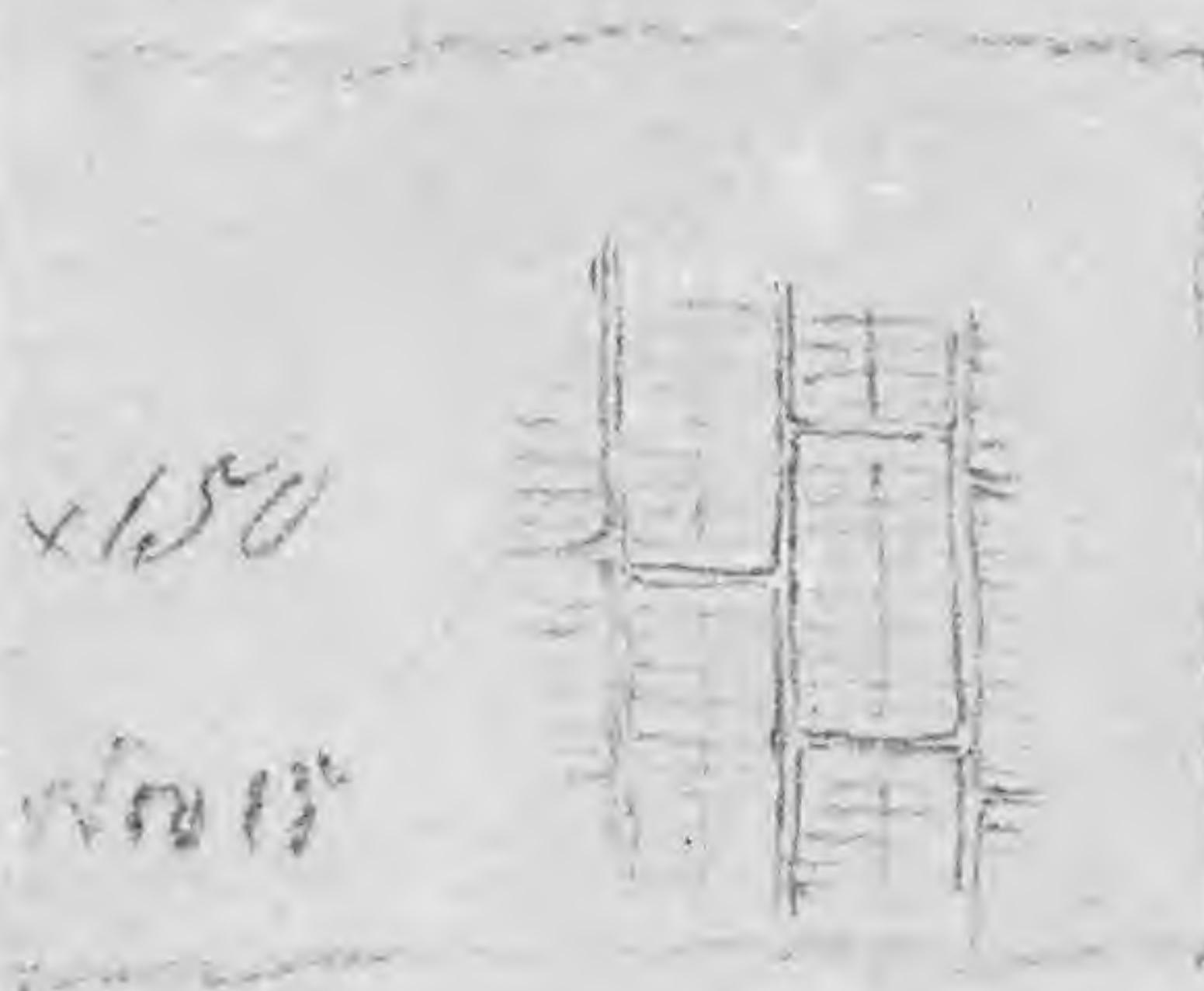
x10



flowers single or
in two's



upper end



x150

down

sepala obtusa

ovovissine mucronulata

large leaf x 10



base with sheath

a little
above it

middle



length section



0 1 2 3 4 5 6 7 8 9 10

cm

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cm

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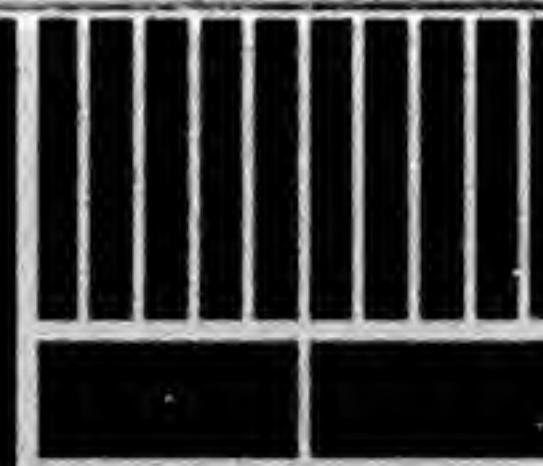
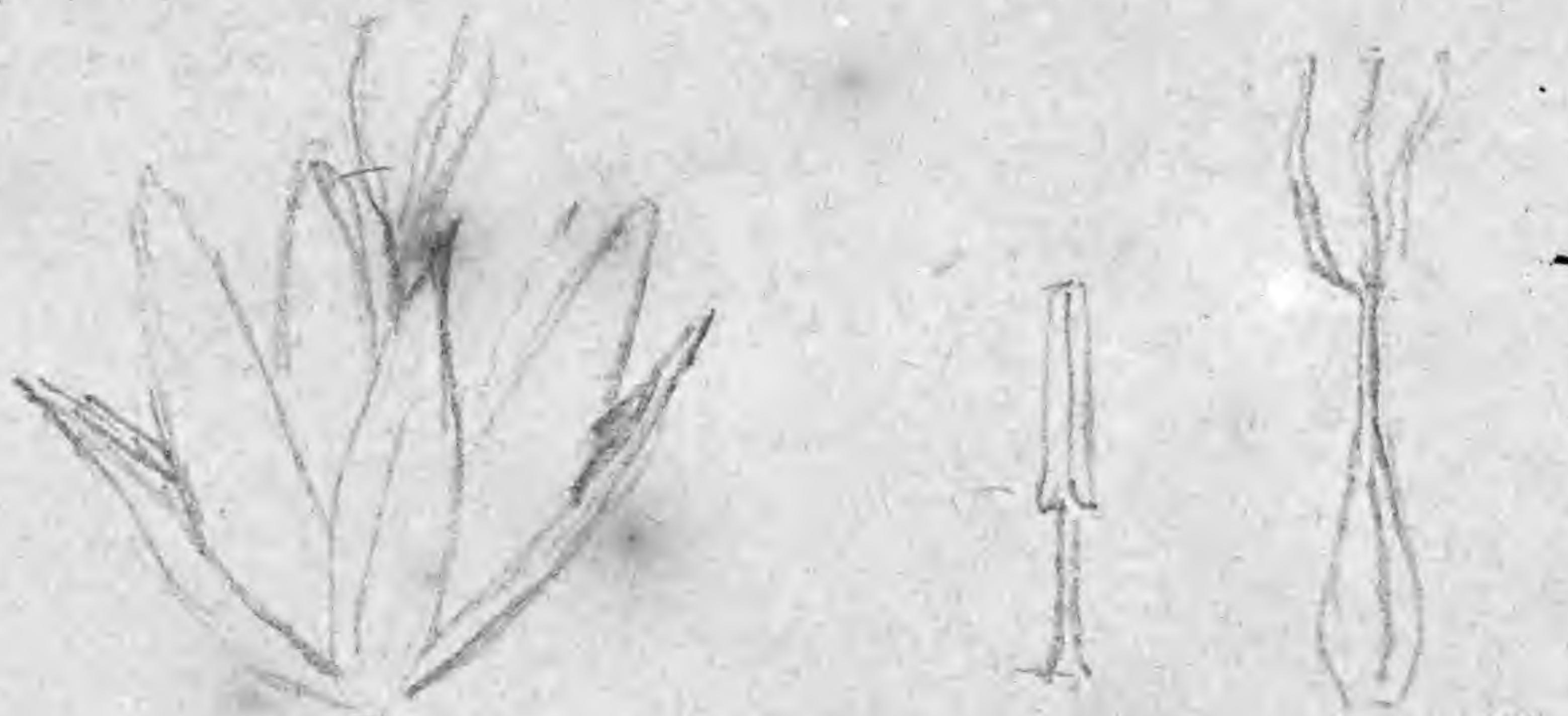


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J. Conrad's vivipara Sept 25 1865

Delaware - No 11611.

X 10



0 1 2 3 4 5 6 7 8 9 10

cm

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K. LETCH
PHARMACEUTIST

Fourth & Olive Sts. St. Louis, Mo.

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9353



0 1 2 3 4 5 6 7 8 9 10

cm

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Bernhardi's present on his herb.
a specimen of "I. Comans" sent from
Delaware, and which he labeled
I. sparsiflora n. sp.
as *I. subtilis* Meyer ?
showing that he also thought of the identity
of both plants.

Hook. Flora Bon Am II, 191 refers *I. subtilis* to
I. uliginosus Sibth. which according to his
statement is synonymous with *I. fuscocastanea*.

Laharpe says: capillary reddish



0 1 2 3 4 5 6 7 8 9 10
cm

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9354



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GARDEN
BOTANICAL PAPERS
MISSOURI ENGELMANN George



0 1 2 3 4 5 6 7 8 9 10

cm

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have it for my botanical album. I wrote to Chapman regarding Isoetes flaccida. We may place it among the doubtful species, the not retouched of Shuttleworth notwithstanding.

I send you herewith a slender form of I. Engelmanni which I suspected to be ^{that} flaccida. All the specimens I have seen are exactly the same. They were collected by Dr. Bridges in a pond near Newport R. I. in deep water. I sent some to Durden who pronounced it an Engelmanni. They are so different of our ordinary forms and answering so well the description of Shuttle. With the exception

Nuphar Odorata, var. sanguinea, as there is but one flower in the general herb.; but I sent you a spec. of our small Jersey form, with purple leaves and purplish flowers, forgetting to say that Nuttall's spec belonged to that variety. In Nuttall's specimen all or almost all the anthers are transformed in petals, more or less perfect. This is all I have to say about Nuphar.



0 1 2 3 4 5 6 7 8 9 10
cm

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9355

Juncus viviparus, S.W. Conrad.

from Vol. VI, part 1st p. 165. of the Journal of the
Phil. Acad. of Nat. Sciences - Old Series. -

Caule erecto, oligophyllo, superne paniculato;
fol. teretibus, nodoso-articulatis; flor. solitariis, subsecundis
- libus
in stem slender, fr. 8-12 inct. high, round, scarcely
laterally branched above; branchlets, after flowering, generally,
bulbiferous. Sheaths of the branches linear lanceolate,
acute-nerved. Leaves terete nodosely articulated, sheathed
below. Sheath striated, bifid and membranaceous at
the apex, with the segments rounded, entire. Lower
small, solitary, axillary and lateral, nearly sessile
Leaves of the calyx lanceolate acute; others oblong,
included. Stigmas foliform, exserted. Root somewhat
creeping, with strong ^{fibrous} radicles. Grow in meadows and
wet-sandy places. Flowering late in the summer.

Near Burlington, N. Jersey, Conrad

Near Salem, Mass. Pickering - specimen more
slender than the Jersey plant.

A good description!!!
March 1866 E. Durand scy



0 1 2 3 4 5 6 7 8 9 10
cm

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Juncus subtilis Meyer
flavitanus Michx

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1861	32.2	40.4	44.8	58.1	64.1	76.9	77.5	78.6	69.1	57.9	46.0	39.7	57.1° F.
1862	28.9	30.2	43.2	55.0	69.7	75.1	81.2	80.7	72.1	57.3	42.6	41.3	56.4° F.

RELATIVE HUMIDITY.

	Jan.	Feb.	Mar.	Ap'l.	May.	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
1861	72.2	63.3	64.5	61.5	66.3	70.8	66.3	69.6	77.3	76.6	69.0	74.3	69.5
1862	85.3	73.9	70.8	67.0	57.3	67.0	66.8	64.3	74.2	67.2	69.5	74.6	69.8

III. Yearly mean of Positive Electricity of Temperature, and of Relative Humidity of the Atmosphere, at the hours of 6, 9, 12, 3, 6 and 9, from morning till night, based upon daily observations at these hours through the years 1861 and 1862, at St. Louis, Mo.

ELECTRICITY.

	At 6 A.M.	At 9 A.M.	At 12 M.	At 3 P.M.	At 6 P.M.	At 9 P.M.	
1861	8.6	.....	10.0	.....	9.2	.....
1862	8.9	.....	10.0	.....	9.1	.....

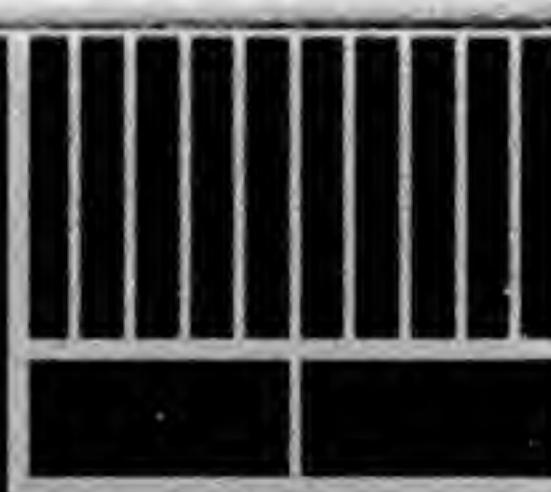
TEMPERATURE.

	1861	1862
48.9° F.	54.9	55.0
48.9	61.6	60.9

RELATIVE HUMIDITY.

	1861	1862
86.4	71.3	70.6
5.3	60.3	60.0

385-9



0
cm
1

2 3 4 5 6 7 8 9 10

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9356

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Dec.....	112	191	211	230	259	265	351	550	S.E.	50
V. Positive or Negative Electricity in the Observations of '61 & '62.										
	Positive Electricity.		Negative Electricity.		No Electricity, or 0.		Highest Positive Electricity.			
	1861.	1862.	1861.	1862.	1861.	1862.	1861.	1862.		
Jan.....	179	179	3	5		2	40°	40°		
Feb.....	162	166	6	2			34	33		
March ...	168	179	15	8			30	48		
April ...	157	157	12	22	1	1	33	52		
May	171	180	17	5			25	32		
June ...	162	143	5	2	8	1	20	16		
July.....	183	153	3	8	1		24	14		
August..	176	143	5	4	6		15	19		
Sept.....	169	117	1	1	10		40	18		
Oct.....	162	143	4	3	20		61	23		
Nov....	172	157	2	7	6		41	33		
Dec.....	175	166	5	0	6		16	42		
	2046	1883	78	67	59	225	42°	52°		



0 1 2 3 4 5 6 7 8 9 10
cm

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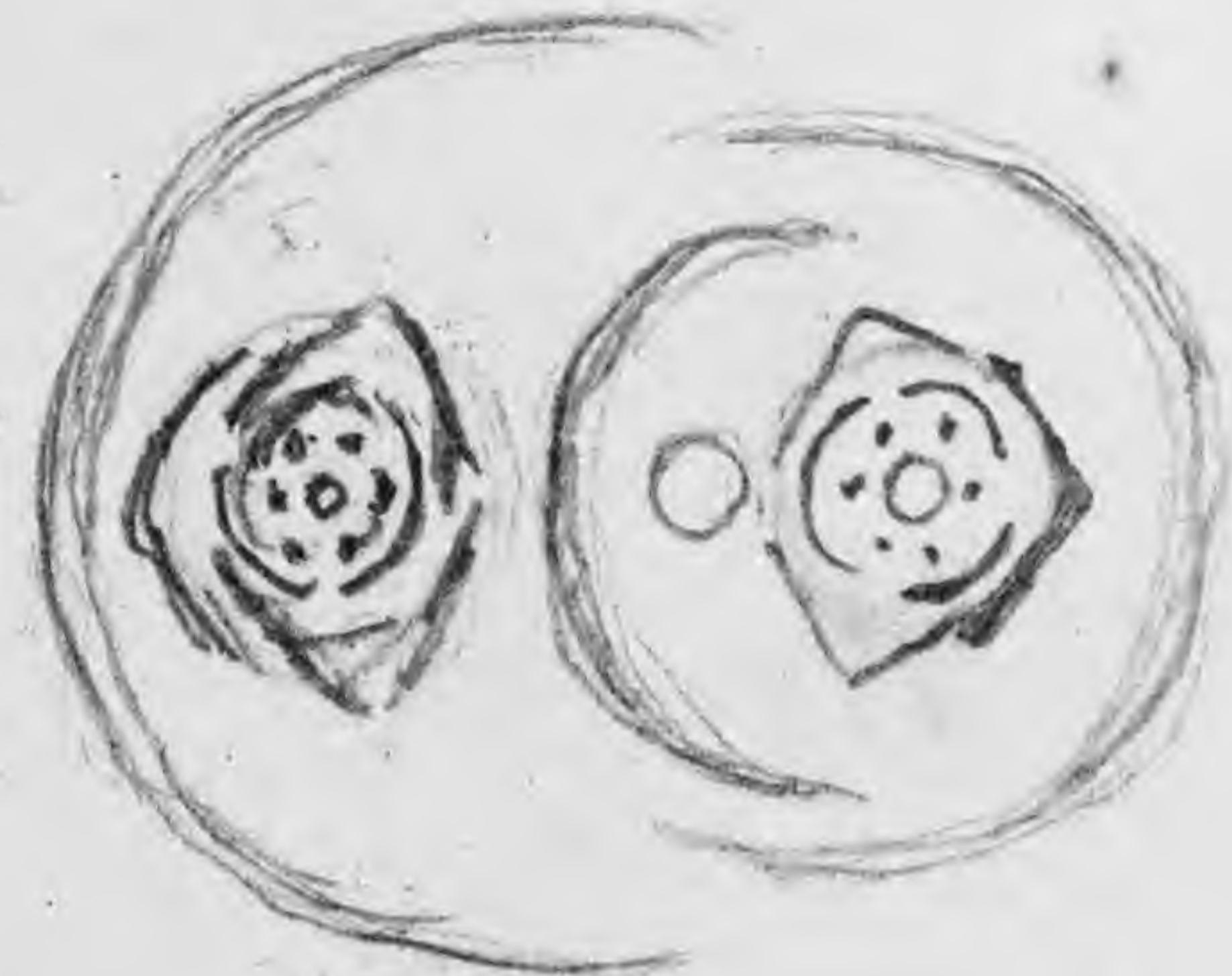
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GARDEN

x 4

Tinus floritans, Michx

Febr 6 1867

ex Hb. Mus. Paris 1866



x 10



not quite certain,
whether 3 or 6 stamens
whole man pressed together,
too young.



0
cm

1

3

4

5

6

7

8

9

10

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658b

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cm

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Iva subtilis Meyer Sarge p. 31 (1823)

Cauda radicante
Toli's que capillaris
Floribus sub binis
Persianicae lacciniis obtusis, exterioribus
staminibus tricus?

I. fluitans Michx added herb!

I. vidua Linné P. A. N.

Canad

Germann, in stylum attenuatum, persianicae
ram brwos est

Lekarze 47 Kuntze 335 Steudel 301

Torrey H. I. 267 Beck Abt 373 J. B. W. T. D. C. L.

3 andros sepals obtuse; ext. shorter



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cm

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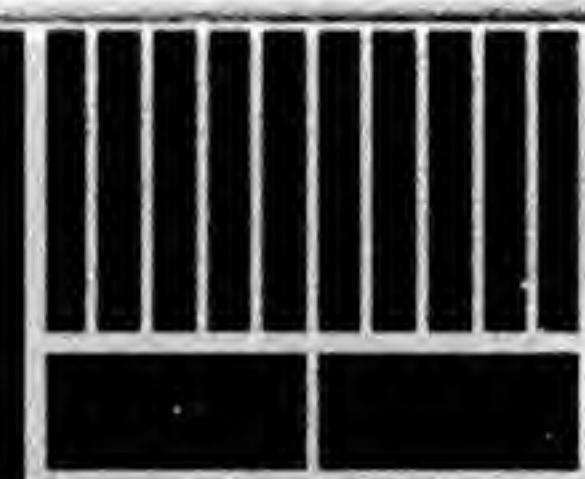
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9358

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APOTHECARY & PHARMACEUTIST,

Marble Building Cor. Fourth & Olive Sts. S^t. Louis, Mo.

GARDEN
GARDEN PAPERS
BOTANICAL
MISSOURI ENCYCLOPEDIA



0 1 2 3 4 5 6 7 8 9 10
cm

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Juncus subtilis E. Meyer Synopsis Leyde p. 31 (1823)

Cale radente foliis que capillaris, floribus subtilibus
perianthi laevioribus oblongis, pistilloribus longioribus
(staminibus tribus?)

J. fluitans Michx Am. I. 191 Willd ! Herb

J. verticillatus Pursh Am. I. 237

J. no 15 Muhl. ? Griseb 219

Iom: nostra inedit.

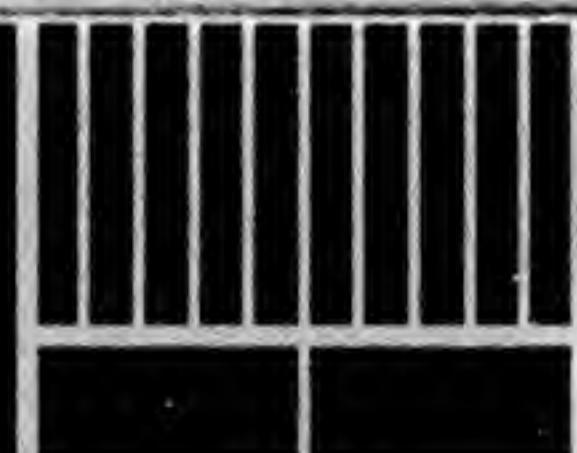
Hab. - algorosis et rivulis Canadæ (Ova!)

Capsula non vidi; germinatio pergam.
Iatum in stylis attenuatis perianthio
parum brevius est.

Juncus fluitans Michx Fl. Am. I. 191

Culmis capillaris, surculis numerosis septentibus
inundatione fluctuantibus i floribus paucissimis
fascis que ramicos terminantibus

Hab. - amnis Canadæ



0 1 2 3 4 5 6 7 8 9 10

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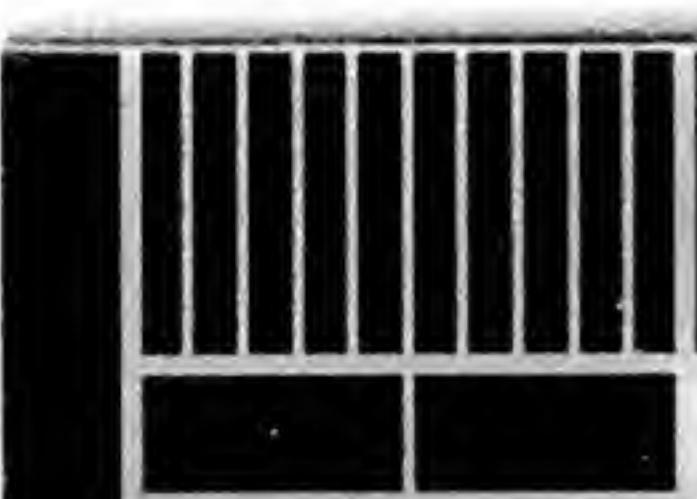


APOTHECARY & PHARMACEUTIST,

COR. 4TH & OLIVE STS., ST. LOUIS.

b58

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0
cm

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Juniperus fluitans Mich.

Hab. Willdenow. № 6882. Nutkt in amictor Canadæ.

Zniga fak E. Meyer griffibus:

Juniperus fluitans Mich. fol. 1.

Eiudem vidi in herbis Vahlii sub nomine *Juniperus apillaris* a Lamarkio communiatum. Quum vero tam *J. apillaris* Lam. quam *J. fluitans* ejusdem sint species longe diverse, hanc *Juniperum subtiliem* in Monographia mea *Junorum* inedita et synopsis Larularum p. 31 dixi. In synopsis *Junorum* cum omisi, quoniam nec specimina hinc tempore a me visa sunt perfecta, nec eorum patria mihi nota erat.

E. Meyer.

Dr Garecke scrips. Berol 1866



0 1
cm

2 3 4 5 6 7 8 9 10

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260
13
G

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Muhlenbergia = HG An Phu
= many nutlets
trifoliate
Distribution in Corinna



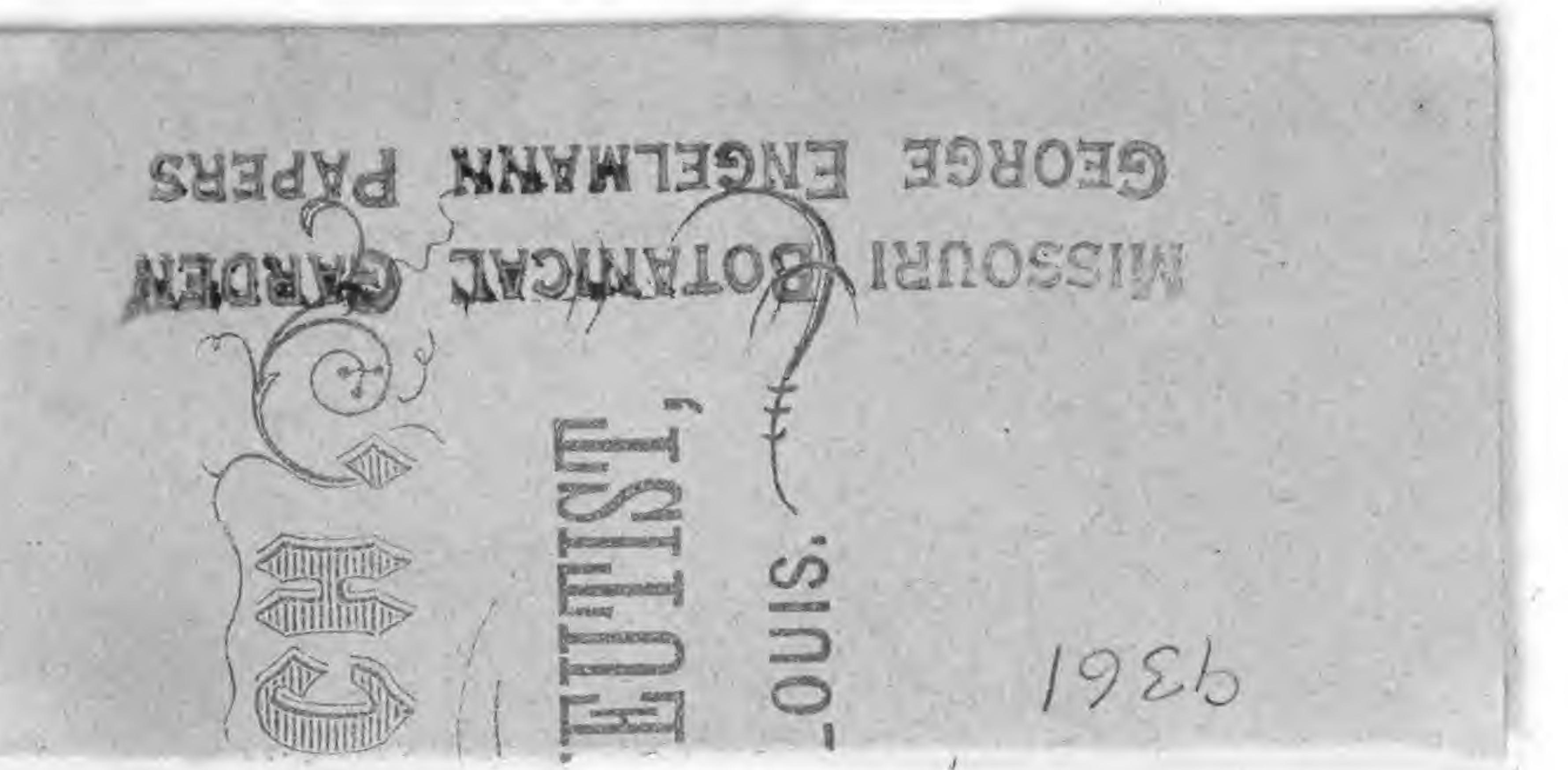
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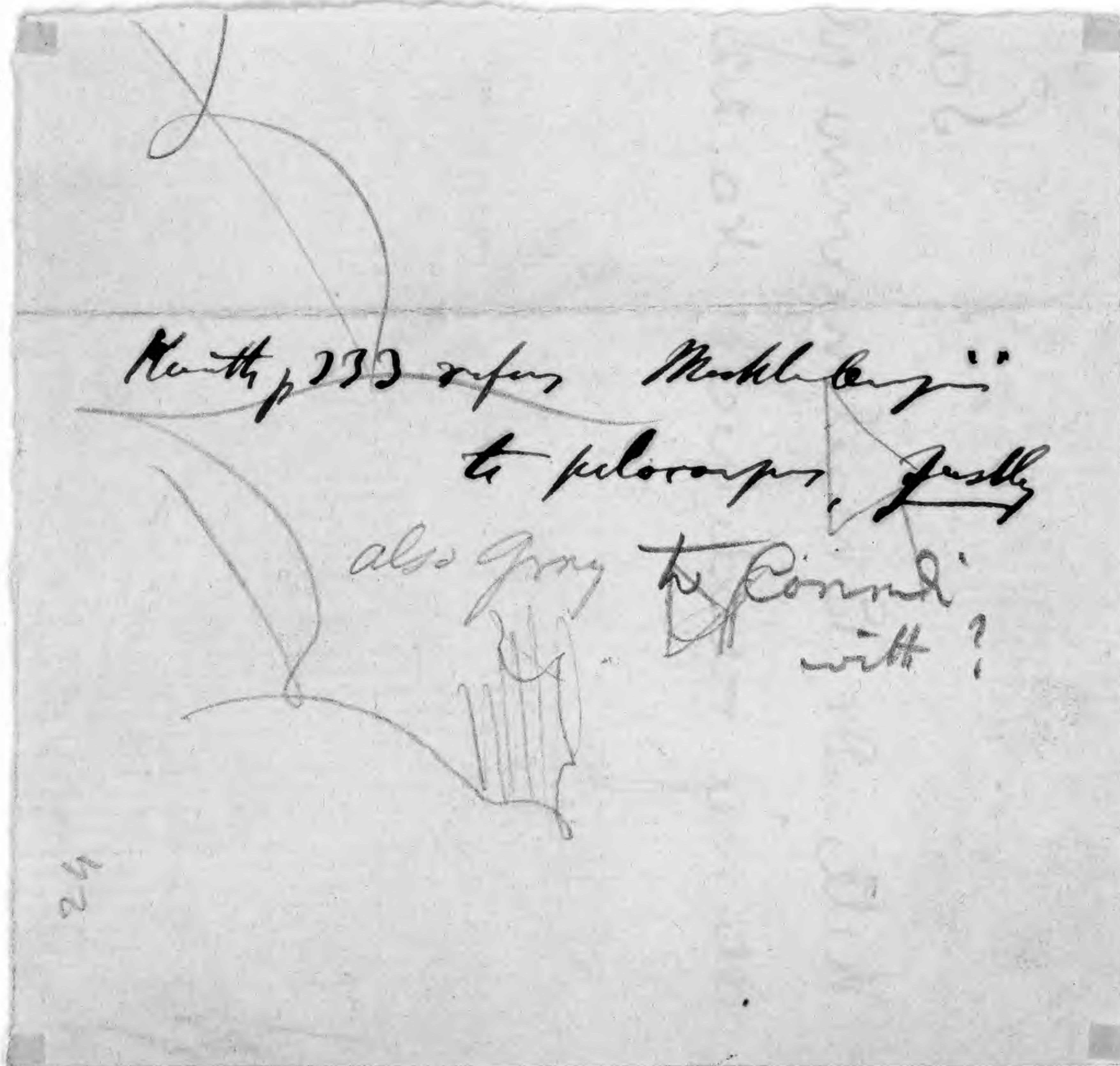
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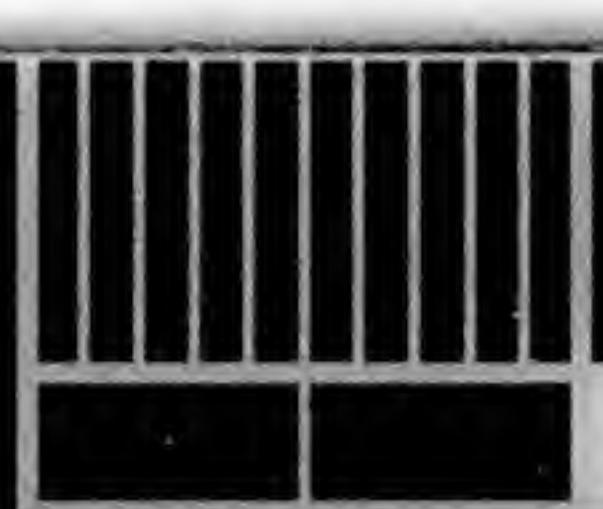
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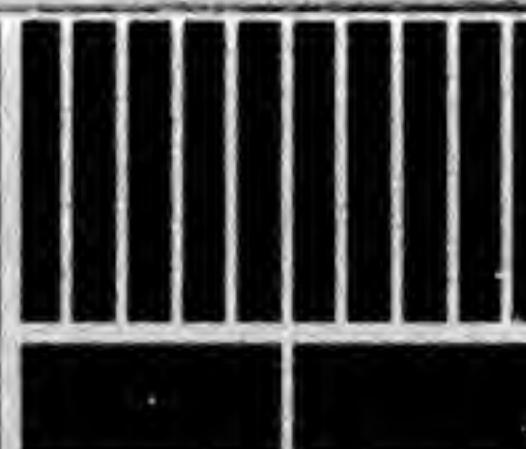
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- 4 *Ianus Muehlenbergii* Sprong Syst. 2. 106 (1825)
 Janus M. 16. Mihlenberg per Spn. ad 15. sic gen.
 2 *I. pelocarpus* E. Meyen Synopsis p. 30 (1823) et in herb.
 = *I. laevocarpi* var. Sprng. in Nat. Hist. II. 107 (1825) ^{Mihlenberg.}
 3 *I. pelocarpus* De la Harpe varia (1825)
 5 *I. viviparus* Conrad in Linn. Ac. Phil VI. 105
 old series part 1
 6 *I. Conradi* Tuckerman in Trans Am. Acad. NY II. 328
 (1843)
I. sparsiflorus Benth. ! - has recd noth reg. Benth.
I. Conradi Gray Man Ed. 2 482
 - - - Chap. Fl. 495



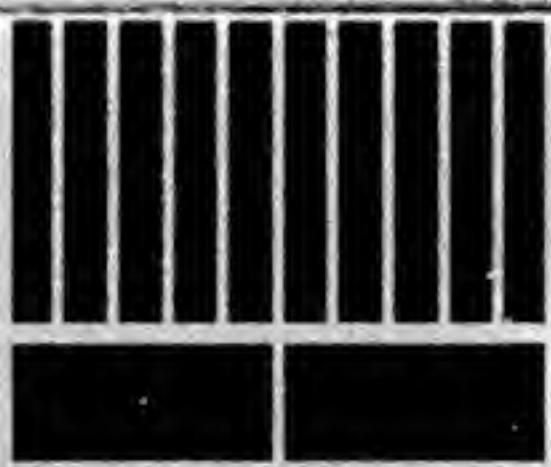
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South West
Corner. Fil
Leitch & Norway

Leitch &

Tinus Mühlbergii: Sprg Sept 2. 106
floribus triandris (1825)

culmo foliato foliis que linearis compressis
nodosis, paniculae ramis divaricatis,
flores genuinis sessilibus, sepelis
luculentis obtusiusculis capite
trigonus mucronata brevioribus.

Ron. Cesar.



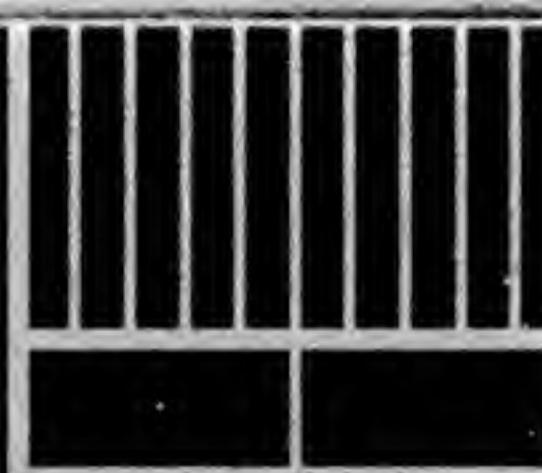
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HEGARIES & PHARMACEUTISTS,
4th and Olive Sts., St. Louis.

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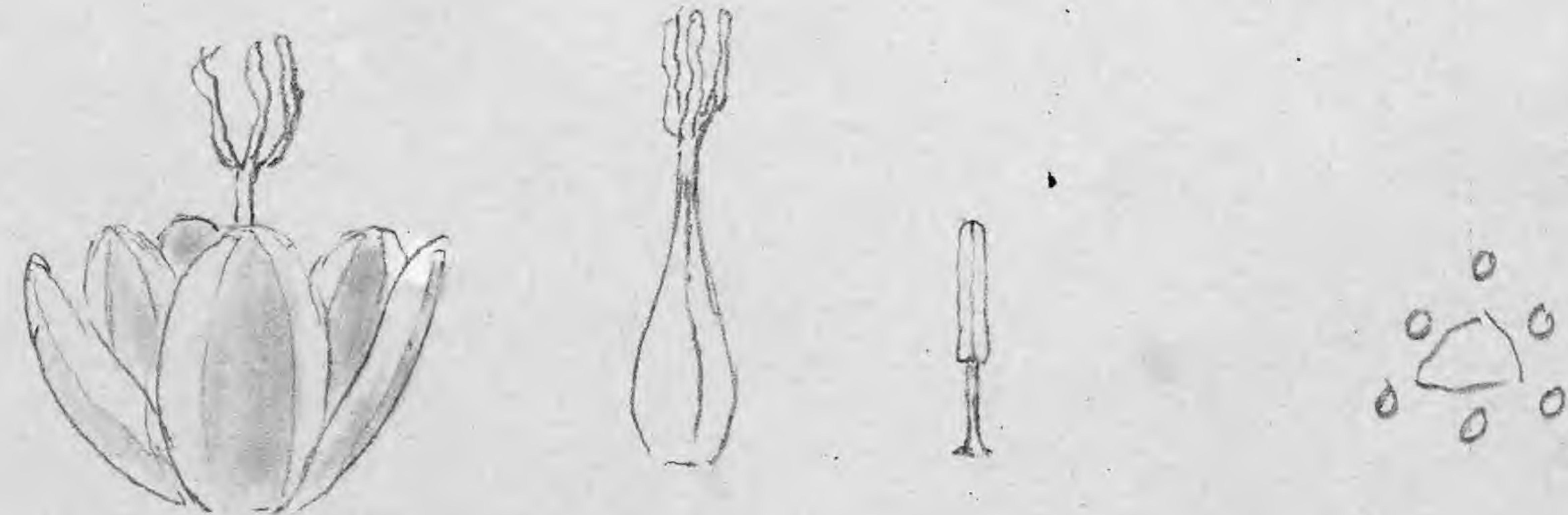
Febr 7. 1866

Dr

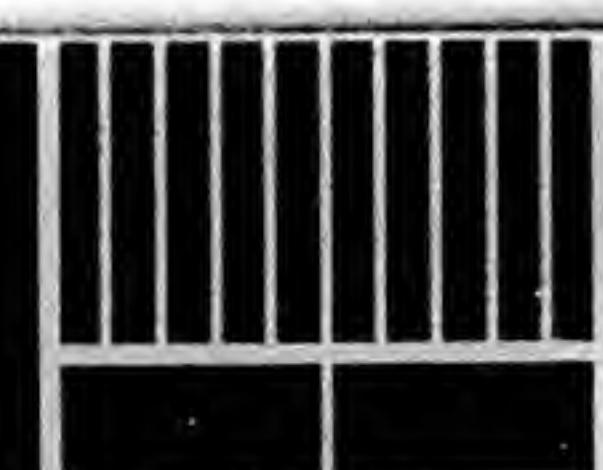
Robbins No 2, Lake Superior

I. cornuti

var aquatilis



sepulis ovatis obtusis
late marginatis, ornatis
acqualibus aquatilisque



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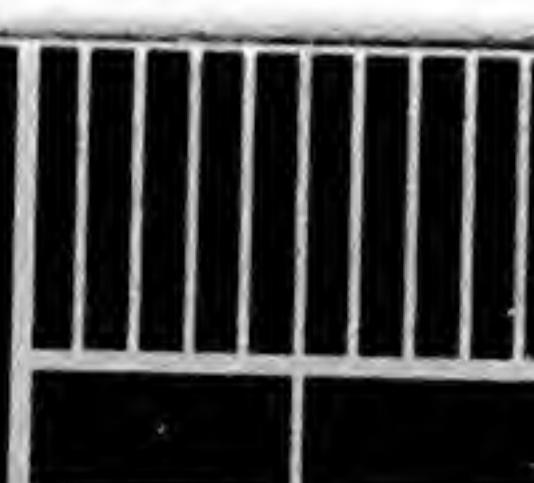
M. W. ALEXANDER,

SOUTH-EAST CORNER FOURTH AND MARKET STREETS,

ST. LOUIS.

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p. 36.

Mühl. Catal. 1813

269. *Juncus*

5. *echinatus* 4 } many-headed
polycephalus, M. }
Habitat: Pens. Car. Georg. Cher.

p. 207. ex Descriptio uberior Graminum
D. Henrico Muhlenberg 1817

Juncus echinatus.

Culmo tereti foliato

Folii teretibus articulatis setaceis alter-
nis 2 basi longe vaginatis.

Pedunculis teretibus glomeruliforis, sim-
plicibus trifidisque.

Glomerulis 3 pedunculatis subrotundis
9-floris. Cal: exterior 2-phylloides ovatus
mucronatus. Cal: interior 6-phylloides
linearis erectus aristatus.

Caps. acuta calici subaequalis 3-valvis
mucronatae. Sem: plurima minuta ovata
utrinque acuta.

Habitat in Penns. Delaware et Carolina.

Habitus *J. verticillati*.

[My note on the Hub. made in 1833?

says. "Some of the specimens = my
Jacket's Harbor plant". - ~~the~~

I suppose these are the Southern *J. edi-*
natus etc. [= scripoides? pedunculi trifidis singl.?]
or = *fraternus*? *glomeruli 9-floris*!!
Habitat diversi locis illat.



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